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Attorneys for Defendant
Boston Scientific Corporation

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

ROSEANNE SANCHEZ, et al.,

Plaintiff,

v.

BOSTON SCIENTIFIC CORPORATION,

Defendants.

Case No. CV 15-1245-JFW (JEMx)

**DEFENDANT'S OFFER OF
PROOF FOR EXPERT
MATTHEW DAVIES, M.D.**

Trial: May 5, 2015

Pursuant to the Court's In Chambers Order of April 17, 2015 (Doc. 217),
Defendant Boston Scientific Corporation ("Boston Scientific") submits the following
offer of proof for its expert witness Matthew Davies, M.D..

OFFER OF PROOF FOR MATHEW DAVIES, M.D.

I. Curriculum Vitae, Expert Report, and Deposition Transcript of Matthew Davies, M.D.

Dr. Davies's curriculum vitae is attached hereto as Exhibit 1. Dr. Davies's expert report pertaining to Mrs. Sanchez is attached hereto as Exhibit 2. A complete list of materials he reviewed in forming his opinions are attached as Exhibit B to his Expert Report. A mini-script of Dr. Davies's deposition taken in this matter is attached hereto as Exhibit 3.

II. Qualifications of Matthew Davies, M.D.

Dr. Davies is the Director of the Division of Urogynecology and Minimally Invasive Surgery at Penn State Milton S. Hershey Medical Center. He also serves as an Associate Director for the Obstetrics and Gynecology residency program at the Penn State Hershey Medical Center, the Director of the Obstetrics and Gynecology Grand Rounds, and Chief of Obstetrics. He received a Ph.D. in Chemistry at the University of California at Berkeley in 1985. He received a Doctor of Medicine in 1989 from the Pennsylvania State University College of Medicine, and he completed a residency in Obstetrics and Gynecology in 1993 at The Milton S. Hershey Medical Center. He is board certified in Obstetrics and Gynecology and has a subspecialty certification in Female Pelvic Medicine and Reconstructive Surgery.

His clinical practice is focused on treatment of women with pelvic floor disorders, and the majority of women he treat suffer from urinary incontinence and/or pelvic organ prolapse. Dr. Davies has extensive experience treating these conditions and utilizes both mesh and non-mesh procedures.

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1 **III. Opinions of Dr. Davies:**

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3 **• Opinion # 1: SUI and POP Can Have A Significant Impact on A**
4 **Woman's Life.**

5 A. Explanation of SUI and Impact on a Woman's Life

6 Dr. Davies will testify regarding the condition of SUI, which is the leakage of
7 urine during stress activities. He will testify that stress urinary incontinence occurs
8 when the urethral support provided by the vagina weakens, which does not allow for
9 full closing of the urethra during stressful activities. He will testify that these
10 activities include coughing, sneezing, exercise and laughing. He will testify that stress
11 urinary incontinence typically worsens over time and does not improve without
12 treatment. (Expert Rep., p. 2.)

13 Dr. Davies will testify regarding the finding in the 2013 Cochrane Review for
14 surgical management of pelvic organ prolapse in women, that prolapse is seen in 40-
15 60% of women on examination. And a woman's lifetime risk of stress urinary
16 incontinence is estimated to be up to 50%. (Expert Rep., pp. 1-2; Retropubic versus
17 transobturator midurethral slings for stress incontinence, Richter, H, et al, New Eng J
18 Med 1-11 (2010).)

19 Dr. Davies will testify that urinary incontinence can have a devastating effect
20 on a woman's quality of life because the physical effects of stress urinary
21 incontinence can include the need to wear absorbent pads (adult diapers in severe
22 cases), leaking urine onto clothing and the body, urinating during intercourse, and a
23 foul odor, among others. Emotional effects of both stress urinary incontinence and
24 prolapse can include avoidance of personal and professional situations, negative effect
25 on sexual relations, feelings of self-consciousness, and a negative body image.
26 (Expert Rep., p. 3.)

1 B. Explanation of POP and Impact on a Woman's Life

2 Dr. Davies will testify regarding the condition of POP, and will explain the
3 different areas within the vagina, and the different support structures attached to each
4 area. He will testify that any of these structures can weaken and lead to prolapse. He
5 will testify that the most common area to weaken is the anterior vaginal wall, or the
6 wall that is under the bladder. Weakness in this area leads to a dropped bladder known
7 as a cystocele. The uppermost part of the vagina, where either the cervix is located (if
8 a woman has not had a hysterectomy) or the vagina vault or cuff is located (if a
9 woman has undergone hysterectomy) can also weaken. This apical area of prolapse is
10 known as a uterine or cuff prolapse, respectively. When one looks at these two
11 compartments separately or together as part of a larger picture of prolapse, they
12 comprise 85% of the cases of pelvic organ prolapse. The back wall of the vagina,
13 which is over the rectum, can also weaken and lead to rectal prolapse, otherwise
14 known as a rectocele. This occurs in 10-15% of cases of prolapse. Finally, there are
15 rarer hernias in which the small bowel can push through a weakened area of the
16 vagina resulting in an enterocele.

17 Dr. Davies will testify regarding the diagnosis of prolapse, which is graded on a
18 system ranging from Stage 0-4. Many women seek medical treatment once the
19 prolapse reaches Stage 2. (Expert Rep., p. 2.)

20 Dr. Davies will testify regarding symptoms of prolapse that can include a
21 feeling of pelvic pain or pressure, a sensation of pelvic "heaviness," low back pain,
22 bloody discharge, bleeding during and/or after intercourse, sexual dysfunction, painful
23 intercourse, urinary dysfunction, urinary tract infections, and bowel dysfunction. He
24 will testify that in severe cases, the prolapse may protrude beyond the vaginal
25 opening, and the woman may need to push the prolapsed organ(s) back in the vagina
26 to urinate or defecate normally, or to engage in normal sexual relations. He will
27 testify that in some cases of prolapse, simple acts such as standing, sitting, or walking
28

1 can become very uncomfortable, even painful. He will testify that prolapse does not
2 improve without treatment and typically worsens over time. (Expert Rep., p. 2.)

3 Dr. Davies will testify that pelvic organ prolapse can have a devastating effect
4 on a woman's quality of life. He will testify that emotional effects of prolapse can
5 include avoidance of personal and professional situations, negative effect on sexual
6 relations, feelings of self-consciousness, and a negative body image. (Expert Rep., p.
7 3.)

8 Beyond the specific exhibits, expert report, and testimony references above, Dr.
9 Davies will also base this opinion on his more than 20 years of clinical experience as a
10 urogynecologist, his medical education, and his review and knowledge of the medical
11 literature. This testimony is relevant to establishing the symptoms and conditions
12 associated with SUI and POP, those suffered by Mrs. Sanchez prior to her implant,
13 why surgical treatment is a necessary choice for some women, and why surgery,
14 including the Pinnacle, was necessary and appropriate for Mrs. Sanchez.

15
16 • **Opinion # 2: Polypropylene Mesh Is Safe and Effective for Permanent**
17 **Implantation.**

18 A. Polypropylene Mesh Does Not Cause a Degradative or Infectious Process

19 Dr. Davies will testify that the body's healing response to polypropylene,
20 specifically Advantage and Polyform mesh, is normal and expected. He will testify
21 that he has not seen a systematic degradative or infectious process of polypropylene
22 mesh. (Expert Rep., p. 8.)

23 B. Polypropylene Mesh Does Not Cause Cancer

24 Dr. Davies will testify that he has never seen a patient develop cancer in
25 connection with polypropylene mesh. He will testify that such theories are not
26 supported by long term clinical use or clinical study of polypropylene surgical mesh.
27 (Expert Rep., p. 8.)
28

1 C. Polypropylene Mesh Contracture Is Not Extreme And Does Not Cause
2 Chronic Pain

3 Dr. Davies will testify that he does not believe that mesh contracture is extreme
4 nor does it cause chronic pain and dyspareunia. He will testify that scar contracture is
5 limited, and that the overwhelmingly majority of patients receiving Type I
6 polypropylene mesh implants, including the Pinnacle and Advantage Fit, do not report
7 pain beyond the immediate post-operative period. (Expert Rep., p. 10.)

8 Beyond the specific exhibits, expert report, and testimony references above, Dr.
9 Davies will also base this opinion on his more than 20 years of clinical experience as a
10 urogynecologist, his medical education, and his review and knowledge of the medical
11 literature. This opinion is relevant to this matter because it provides information
12 concerning Dr. Davies' personal clinical experience with his use of polypropylene
13 mesh in surgical procedures and the safety and efficacy of the Pinnacle.

14
15 **• Opinion # 3: The Pinnacle Was A Safe and Effective Product For**
16 **Treatment of POP Based On Clinical Studies and Historical Surgical**
17 **Methods of POP Repair**

18 Dr. Davies will testify about patient treatment options for prolapse. In
19 particular, he will testify that a patient experiencing pelvic organ prolapse has four
20 options: no treatment, physical therapy, a pessary, or surgery. No getting any
21 treatment is typically not an option for patients presenting with bothersome prolapse
22 symptoMrs. Physical therapy is also typically ineffective. A pessary is an option for
23 some women, but many women find them uncomfortable and are bothered by the
24 discharge they create and the need for removal prior to intercourse. For symptomatic
25 patients, surgery is generally the best option. (Expert Rep., p. 5.)

26 Dr. Davies will also testify that although non-surgical options exist for
27 treatment of stress urinary incontinence, these options are largely ineffective. Such
28

1 options include timed voiding, pelvic floor strengthening exercise, and lifestyle
2 modifications including weight loss. (Expert Rep., p. 3.)

3 He will testify about the surgical options for treatment of pelvic organ prolapse.
4 Surgery can be performed via an abdominal or vaginal route. For many years an
5 abdominal incision was used to place a polypropylene mesh from the top of the vagina
6 or cervix to the sacrum. These procedures were known as a sacral colpopexy or sacral
7 cervicopexy, respectively, and hysterectomy is required in both instances. Whether
8 the prolapse repair is performed abdominally or vaginally, the uterosacral or
9 sacrospinous ligaments have historically been used as a fixation point for the upper
10 vagina to provide apical support. (Expert Rep., p. 5.)

11 He will testify that for prolapse occurring in the apical compartment, the sacral
12 colpopexy has long been considered an appropriate treatment option. Originally
13 performed through an open abdominal incision, it more recently has been performed
14 laparoscopically or robotically. Sacral colpopexy adequately addresses apical
15 prolapse, but this procedure does not provide primary support to the anterior or
16 posterior vaginal wall. In addition, he will testify that rectal prolapse cannot be
17 addressed in this procedure. And he will explain how abdominal procedures are not
18 an option for a certain population of patients. (Expert Rep., p. 5.)

19 He will testify about the safety and efficacy of the vaginal approach for the
20 repair and treatment of prolapse. More specifically, he will testify that the vaginal
21 approach to prolapse repair is widely used to eliminate the potentially life-threatening
22 complications associated with abdominal surgery, which include bowel and vascular
23 injury. Vaginal approach to prolapse repair involves use of the patient's native
24 tissues, insertion of a biological material, or use of a synthetic mesh. When using a
25 synthetic mesh, it is understood that that the mesh is permanent. Physicians have
26 understood the permanence of synthetic implantable mesh since its inception. (Expert
27 Rep., pp. 5-6.)
28

1 Dr. Davies will explain that at the time Boston Scientific sought FDA clearance
2 of the Pinnacle Pelvic Floor Repair System, use of a permanent, macroporous,
3 monofilament polypropylene mesh to surgically augment soft tissue defects,
4 specifically pelvic organ prolapse, was not a new idea. He will testify that
5 polypropylene meshes had been used for decades in abdominal repair of hernias
6 (including Boston Scientific's own Trelex mesh) and prolapse with evidence of safety
7 and efficacy. Hernia Repair with Marlex Mesh, Arch Surg 84 (), F. Usher, March
8 1962:73-76; Def. Ex. 530, G. Di Vita et al, Acute Inflammatory Response After
9 Inguinal and Incisional Hernia Repair with Implantation of Polypropylene Mesh of
10 Different Size, Langenbecks Arch Surg (2005) 390:306-311, Def. Ex. 584; Marlex
11 Gauze Hammock Sling Operation of Cooper's Ligament Attachment in the
12 Management of Recurrent Urinary Stress Incontinence, F. Bryans, Am J Obstet
13 Gynecol, 133:292, 1979, Def. Ex. 587; Correction of Rectal Prolapse by use of
14 Polypropylene Mesh (Marlex), M. Lomas and H. Cooperman, Dis. Col. & Rect. Vol
15 15 No. 6, Nov.Dec. 1972:416-419, Def. Ex. 583; The efficacy of Marlex mesh in the
16 repair of severe, recurrent vaginal prolapse of the anterior midvaginal wall T. Julian,
17 Am. J. Obstet. & Gynecol. (1996) 175: 1472-75, Def. Ex. 499.

18 In addition, early studies of other vaginal prolapse meshes with mesh
19 characteristics similar to the mesh used in the Pinnacle demonstrated safety and
20 efficacy. (Expert Rep., p. 7; Transvaginal Repair of Genital Prolapse: Preliminary
21 Results of a New Tension-Free Vaginal Mesh (Prolift™ technique) - A Case Series
22 Multicentric Study, B. Fatton, J. Amblard, et al, Int Urogynecol J (2007) 18:743-752,
23 January 1, 2007, Def. Ex. 443; Anterior Colporrhaphy Reinforced with Marlex Mesh
24 for the Treatment of Cystoceles, C.G. Flood, H.P. Drutz and L. Waja, Int Urogynecol
25 J (1998) 9:200-204, January 1, 1998, Def. Ex. 425; Efficacy and Outcome of Anterior
26 Vaginal Wall Repair Using Polypropylene Mesh (Gynemesh), H. Jo, J. Kim, et al, J.
27 Obstet. Gynaecol. Res. Vol. 33, No. 5: 700-704, October 2007, October 1, 2007, Def.

1 Ex. 448.) Vaginal mesh kits were designed to be less invasive, provide for more
2 reproducible outcomes, and reduce complications associated with abdominal surgery.
3 (Expert Rep., p. 7.)

4 Dr. Davies will testify that suture-based repairs using the patient's own tissue
5 are common treatment options employed to correct anterior prolapse (cystocele) or
6 rectal prolapse (rectocele). He will testify that the most-common suture-based
7 operation is the colporrhaphy. He will testify that failure rates associated with anterior
8 colporrhaphy approach 50% at one year follow up in patients with grade 2 or higher
9 prolapse, which is why gynecologic surgeons looked to reinforcement of prolapse
10 repair with grafts. (Epidemiology of Surgically Managed Pelvic Organ Prolapse and
11 Urinary Incontinence, Obstet & Gynec; A. Olsen, V. Smith, et al, Vol 89, No 4, Apr
12 1997:501-506, April 1, 1997, Def. Ex. 424; Risk Factors for Prolapse Recurrence after
13 Vaginal Repair, J. Whiteside, A. Weber, L. Meyn and M. Walters, Am J Obstet Gynec
14 (2004) 191, 1533-8, Def. Ex. 437.) He will testify that graft options include biologics,
15 allografts, and synthetic mesh, and about the limitations associated with each
16 approach. (Expert Rep., p. 6.)

17 Dr. Davies will testify about medical literature that compares various types of
18 surgical repair for prolapse. He will testify that between 2007 and 2011, multiple
19 randomized, controlled trials and meta-analyses comparing traditional prolapse repair
20 to synthetic mesh repair were published. *See, e.g.,* A Randomized Comparison of
21 Polypropylene Mesh Surgery with Site-Specific Surgery in the Treatment of
22 Cystocele, A.A. Sivaslioglu, E. Enlubilgin and I. Dolen., Int Urogynecol J (2008)
23 19:467-471, Def. Ex. 451; Outcome After Anterior Vaginal Prolapse Repair: A
24 Randomized Controlled Trial, J. Nguyen and R. Burchette, Obstet Gynecol 2008;
25 111:891-8, Def. Ex. 453; Vaginal Repair with Mesh Versus Colporrhaphy for
26 Prolapse: A Randomised Controlled Trial, M. Carey et al, BJOG 2009; 116:1380-
27 1386, Def. Ex. 545; Laparoscopic Sacrocolpopexy Versus Transvaginal Mesh for
28

1 Recurrent Pelvic Organ Prolapse, C. Iglesia, D. Hale and V. Lucente, Int Urogynecol J
2 (2013) 24:363-370, Def. Ex. 486; Trocar-Guided Mesh Compared With Conventional
3 Vaginal Repair in Recurrent Prolapse: A Randomized Controlled Trial, M. Withagen,
4 A. Milani, et al, Obstet Gynecol 2011;117:242-50, Def. Ex. 472; Anterior
5 Colporrhaphy Versus Transvaginal Mesh for Pelvic-Organ Prolapse, D. Altman, T.
6 Vayrynen, et al, N Engl J Med 364;19:1827 - 1836; May 2011, Def. Ex. 475. Dr.
7 Davies will testify about these studies and that they demonstrate that mesh provides
8 superior prolapse support by exam, without compromising quality of life measures.
9 (Synthetic mesh in the surgical repair of pelvic organ prolapse: current status and
10 future directions, T. Keys et al, Urology. (2012) 80: 237-43, Def. Ex. 522. He will
11 testify that in addition, several of these studies demonstrate that de novo dyspareunia
12 or less resolution in prolapse symptoms and sexual function occurs more often
13 following anterior colporrhaphy than prolapse repair using vaginal mesh. Outcome
14 After Anterior Vaginal Prolapse Repair: A Randomized Controlled Trial, J. Nguyen
15 and R. Burchette, Obstet Gynecol 2008; 111:891-8, April 1, 2008, Def. Ex. 453;
16 Symptom Resolution and Sexual Function after Anterior Vaginal Wall Repair With or
17 Without Polypropylene Mesh, K. Nieminen, R. Hiltunen, et al, Int Urogynecol J
18 (2008) 19:1611-1616, Def. Ex. 455; A Randomized Comparison of Polypropylene
19 Mesh Surgery with Site-Specific Surgery in the Treatment of Cystocele, A.
20 Sivaslioglu, E. Unlubilgin and I. Dolen, Int. Urogynecol. Journal; Vol. 19; pgs. 467-
21 471, Def. Ex. 547.

22 He will testify about another study that found that pre-implant urinary
23 symptoms and pelvic pain improved more often following mesh repair than site-
24 specific cystocele repair. A Randomized Comparison of Polypropylene Mesh Surgery
25 with Site-Specific Surgery in the Treatment of Cystocele, A. Sivaslioglu, E.
26 Unlubilgin and I. Dolen, Int. Urogynecol. Journal; Vol. 19; pgs. 467-471, Def. Ex.
27
28

1 547. This same study observed no mesh shrinkage in the mesh group. (Expert Rep.,
2 p. 6.)

3 Dr. Davies will also testify about studies published specific to the Pinnacle. He
4 will testify about the variability of complication rates and the factors affecting the
5 same. He will testify that the complication rates vary among these studies based on
6 surgeon technique and individual patient circumstances. He will testify about the
7 results of these studies, and that the study with the longest follow-up, and involving
8 the largest sample size, shows that vast majority of patients experience safe and
9 effective resolution of their prolapse with the Pinnacle. (Expert Rep., p. 7.)

10 Dr. Davies will testify that Pinnacle's entrance into the pelvic floor repair kit
11 market signaled a different method to prolapse repair. He will testify that the Pinnacle
12 did not employ trocars and utilized a smaller piece of mesh—albeit the same mesh
13 that had been used in pelvic surgery for more than a decade. He will testify that at this
14 time, the Capio had a long history of safe use in suture-based pelvic floor repair and
15 was the logical delivery device to accompany the Pinnacle. He will testify about the
16 development of the Pinnacle, and that the sacrospinous ligaments and arcus tenineus
17 had historically been fixation points for other prolapse repairs and were an appropriate
18 anchor point for the Pinnacle. He will testify that based upon the long, safe history of
19 Trelex mesh, Advantage and Polyform mesh, use of the Capio as the delivery device,
20 and utilizing the sacrospinous ligaments and arcus tendineus as fixation structures, the
21 Pinnacle was a different, yet improved, method of prolapse repair. (Expert Rep., pp.
22 7-8.)

23 Beyond the specific exhibits, expert report, and testimony references above, Dr.
24 Davies will also base this opinion on his more than 20 years of clinical experience as a
25 urogynecologist, his medical education, and his review and knowledge of the medical
26 literature. This testimony is relevant to establishing the various treatment options
27 available for SUI and POP, why surgical treatment is a necessary choice for some
28

1 women, the various risks and benefits associated with each of these procedures, and
2 why surgery, including the Pinnacle, was necessary and appropriate for Mrs. Sanchez.
3 In addition this opinion is relevant because it explains the clinical evidence available
4 and relied upon for the safety and efficacy of the Pinnacle.

5
6 **• Opinion # 4: The Advantage Is A Safe And Effective Treatment**
7 **Option for SUI.**

8 Dr. Davies will explain that the majority of women with bothersome stress
9 urinary incontinence require surgical treatment. He will testify about surgical
10 procedures used to treat stress urinary incontinence, and how they include the needle
11 suspensions of the vagina (e.g., Pereyra-Raz suspension), the retropubic urethropexies
12 (e.g., Burch), placement of a fascial suburethral sling (aka pubovaginal sling), and
13 placement of a polypropylene mid-urethral sling.

14 Dr. Davies will testify that the first polypropylene mesh mid-urethral sling was
15 cleared by the FDA in 1996. Boston Scientific received FDA clearance for its first
16 polypropylene mid-urethral sling, the Advantage, in 2002. Monofilament,
17 macroporous polypropylene was an acceptable material to use in the Advantage sling.
18 He will testify that at that time, clinical literature established that treatment of stress
19 urinary incontinence with a macroporous, monofilament polypropylene mid-urethral
20 sling had cure rates similar or superior to non-mesh incontinence surgeries, including
21 the gold standard at that time—the Burch. A Systematic Review of Tension-Free
22 Urethropexy for Stress Urinary Incontinence: Intravaginal Slingplasty and the
23 Tension-Free Vaginal Tape Procedures, T. Merlin, E. Arnold, P. Petros, et al, BJU
24 International (2001), 88, 871-880, August 28, 2001; Def. Ex. 431; Burch
25 Colposuspension and Tension-Free Vaginal Tape in the Management of Stress
26 Urinary Incontinence in Women, A. Liapis, P. Bakas and G. Creatsas, Eur Urol 41
27 (2002):469-473, January 22, 2002; Def. Ex. 432.

1 He will also testify about the long-term data that was also available to support a
2 finding of safety and efficacy for this therapy. (An Ambulatory Surgical Procedure
3 Under Local Anesthesia for Treatment of Female Urinary Incontinence, U. Ulmsten et
4 al, Int. Urogynecol. Journal (1996); Vol. 7; pgs. 81-86; Def. Ex. 553; A Three-year
5 Follow Up of Tension Free Vaginal Tape for Surgical Treatment of Female Stress
6 Urinary Incontinence, I. Olsson and U.B. Kroon, Gynecol Obstet Invest 1999;48:267-
7 269, June 19, 1999; Def. Ex. 427.) In addition, the physicians performing these
8 procedures reported that the sling was less invasive and had lower morbidities than the
9 Burch, pubovaginal sling, or other traditional surgeries. (Expert Rep., p. 3.)

10 Dr. Davies will testify about the long-term data available today that establishes
11 the long-term safety and efficacy of mid-urethral slings like the Advantage Fit
12 implanted in Mrs. Sanchez. Seventeen years' follow-up of the tension-free vaginal
13 tape procedure for female stress urinary incontinence, Nilsson, C, et al., Int
14 Urogynecol J (2013) 24:1265-69, April 6, 2013; Def. Ex. 487. Long-term data was
15 available at the time of Mrs. Sanchez' pelvic mesh procedures and was well known in
16 the gynecologic community. Eleven years prospective follow-up of the tension-free
17 vaginal tape procedure for treatment of stress urinary incontinence, Nilsson, C, et al.,
18 Int Urogynecol J (2008) 19:1043-47. (Expert Rep., p. 4.)

19 Dr. Davies will testify that long-term data also confirms the superiority of mid-
20 urethral slings like the Advantage Fit over traditional incontinence surgery, including
21 the Burch and pubovaginal sling. (Updated systematic review and meta-analysis of
22 the comparative data on colposuspensions, pubovaginal slings, and midurethral tapes
23 in the surgical treatment of female stress urinary incontinence, Novara, G, et al.,
24 European Urology 58 (Aug. 2010) 218-38; Def. Ex. 618.) In the most-recent
25 Cochrane review of minimally invasive synthetic suburethral sling operations for SUI,
26 Type I polypropylene mid-urethral slings were found to be superior to all alternative
27 surgical treatment options. (Minimally invasive synthetic suburethral sling operations
28

1 for stress urinary incontinence in women, Ogah, J, et al., (2010, Issue 1), January 1,
2 2010; Def. Ex. 462.) Dr. Davies will testify to the findings of this review, which
3 include the following:

- 4 • Polypropylene mid-urethral slings are as effective as traditional slings,
5 but have a shorter operating time and less voiding dysfunction and *de*
6 *novo* urgency;
- 7 • Polypropylene mid-urethral slings are as effective as the traditional
8 Burch, but have few peri-operative complications, a shorter operative
9 time and hospital stay, and less voiding dysfunction;
- 10 • Compared to laparoscopic colposuspension, polypropylene mid-urethral
11 slings have significantly less *de novo* urgency and urge incontinence, a
12 shorter operating time, hospital stay and return to normal activities; and
- 13 • Monofilament slings had significantly higher objective cure than multi-
14 filament slings, with few mesh erosions.

15 (Expert Rep., p. 4; Minimally invasive synthetic suburethral sling operations for stress
16 urinary incontinence in women, Ogah, J, et al., (2010, Issue 1), January 1, 2010; Def.
17 Ex. 462.)

18 He will testify that the leading medical societies for female pelvic surgery view
19 polypropylene mid-urethral slings like the Advantage Fit as the gold standard of care
20 for treatment of SUI, and he also holds this view. In addition, the clinical literature
21 reports safe and efficacious use of the Advantage slings, and an Obstetrics &
22 Gynecology Devices Panel convened by the FDA has stated, “[T]he safety and
23 effectiveness of these devices [retropubic and transobturator suburethral slings] is
24 well-established.” See AUGS Position statement on Restriction of Surgical Options
25 for Pelvic Floor Disorders, March 3, 2013, Exhiibt 390; AUA Position Statement on
26 the Use of Vaginal Mesh for the Surgical Treatment of Stress Urinary Incontinence,
27 AUA Webpage November 2011; Def. Ex. 470; Three-year results from a randomized
28

1 trial of a retropubic mid-urethral sling versus the Miniarc single incision sling for
2 stress urinary incontinence, Basu, M, et al., Int Urogynecol J (2013), April 28, 2013;
3 Def. Ex. 489; A series of Advantage suburethral slings, Renganathan, A, et al., J
4 Obstet and Gynaecol (Aug. 2011); 31:521-23; Def. Ex. 416; FDA 24-Hour Summary,
5 Surgical Mesh Panel Meeting (September 8-9, 2011). He will confirm there is no
6 dispute that Mrs. Sanchez received the gold standard of care for treatment of her SUI.
7 (Expert Rep., pp. 4-5.)

8 Beyond the specific exhibits, expert report, and testimony references above, Dr.
9 Davies will also base this opinion on his more than 20 years of clinical experience as a
10 urogynecologist, his medical education, and his review and knowledge of the medical
11 literature. This testimony is relevant to establishing the various treatment options
12 available for SUI and POP, why surgical treatment is a necessary choice for some
13 women, the various risks and benefits associated with each of these procedures, and
14 why surgery, including the Advantage, was necessary and appropriate for Mrs.
15 Sanchez. In addition this opinion is relevant because it explains the clinical evidence
16 available and relied upon for the safety and efficacy of the Advantage. This opinion is
17 also relevant because it speaks to Boston Scientific's meeting of its duty of care in its
18 warning of the risks associated with the Advantage.

19
20 **• Opinion # 5: The Risks of Polypropylene for Vaginal Repairs Are**
21 **Similar to Other Treatment Options**

22 Dr. Davies will testify that the risks of vaginal prolapse mesh compared to
23 native tissue or biologic prolapse repair, with the exception of erosion, are the same.
24 (And regarding biologic prolapse repair, this procedure also carries the risk of
25 erosion.) He will testify that these risks include the risk of injury to vessels or internal
26 organs such as the bowel or the bladder, or injury to the ureters carrying the urine
27 from the kidneys down to the bladder. He will testify that there could also be the risk
28

1 of inflammation, infection, bleeding, discomfort, pain, dyspareunia, recurrent or de
2 novo urinary incontinence and/or pelvic organ prolapse, urinary dysfunction including
3 urinary retention, vaginal discharge, vaginal shortening, nerve injury, and constipation
4 or other bowel dysfunction. (Expert Rep., p. 8.)

5 Dr. Davies will testify that these risks are not specific to Pinnacle, but rather
6 exist for all surgical prolapse surgeries—and have been known for decades. (Expert
7 Rep., p. 8.)

8 A. Directions For Use Adequately Warn of All Potential Mesh Risks

9 Dr. Davies will testify that the Directions For Use that accompany the Pinnacle
10 adequately warns of all potential mesh risks. He will testify that the Directions For
11 Use further warns that tissue responses, including vaginal extrusion or erosion or
12 exposure, migration of the device, foreign body reaction, and inflammation will
13 require removal or revision of the mesh. (Expert Rep., p. 8; Def. Ex. 6.) He will
14 testify that the Directions For Use further warns that tissue responses, including
15 vaginal erosion or exposure, migration of the device, foreign body reaction, and
16 inflammation will require removal or revision of the mesh. (Expert Rep., p. 8; Def.
17 Ex. 6.) Dr. Davies will testify that the Directions For Use for Boston Scientific’s
18 pelvic mesh devices, including the Pinnacle identify “mesh and/or tissue contracture”
19 as a potential adverse event and warn the user, “[a]void excess tensioning of the mesh
20 when positioning to avoid over correction of the defect.” (Expert Rep., pp. 9-10; Def.
21 Ex. 6.)

22 Dr. Davies will explain that the Directions for Use for the Pinnacle warn of the
23 potential complications of dyspareunia, pain, and vaginal shortening or stenosis.
24 Davies Dep. at 254:1-7, 255:5-8, 255:12-15, 257:13-15; Def. Ex. 6.

25 Dr. Davies will testify that the Directions For Use for the Advantage Fit
26 adequately warns of all potential risks, including extrusion or erosion. (Expert Rep.,
27 p. 8; Def. Ex. 7.) Dr. Davies will testify that the DFU for the Advantage Fit warns,
28

1 “[u]ser should note the importance of placing the mesh tension free under mid-
2 urethra.” Mesh that is appropriately tensioned will correct the prolapse and/or SUI
3 without adverse sequelae. (Expert Rep., pp. 9-10; Def. Ex. 7.)

4 B. The Risks of Pinnacle Surgery Are The Same As Most Other Surgeries
5 Intended For Treatment of POP

6 Dr. Davies will testify that the risks of vaginal prolapse mesh compared to
7 native tissue or biologic prolapse repair, with the exception of erosion, are the same.
8 (And regarding biologic prolapse repair, this procedure also carries the risk of
9 erosion.) He will also testify that these risks include the risk of injury to vessels or
10 internal organs such as the bowel or the bladder, or injury to the ureters carrying the
11 urine from the kidneys down to the bladder. There could also be the risk of
12 inflammation, infection, bleeding, discomfort, pain, dyspareunia, recurrent or de novo
13 urinary incontinence and/or pelvic organ prolapse, urinary dysfunction including
14 urinary retention, vaginal discharge, vaginal shortening, nerve injury, and constipation
15 or other bowel dysfunction. (Expert Rep., p. 8.)

16 Dr. Davies will testify that these risks are not specific to Pinnacle, but rather
17 exist for all surgical prolapse surgeries—and have been known for decades. (Expert
18 Rep., p. 8.)

19 As referenced above, nerve injury is a risk with all pelvic surgeries. This risk
20 has been present since surgeons began performing pelvic surgery and continues to
21 exist today. Nerve entrapment is a rare event that can occur following a surgery using
22 mesh, but such an event only occurs in the event of a mesh malplacement. Implanted
23 mesh will experience tissue in-growth and development of new microscopic nerves to
24 nourish the new tissue, but this is a different phenomenon than nerve entrapment.
25 (Expert Rep., pp. 8-9.)

26 Dr. Davies will testify that the most-meaningful complication rate is the rate
27 specific to the surgeon, as rates of complications vary widely from surgeon-to-surgeon
28

1 and study-to-study. He will also testify that as with any surgery, a surgeon should
2 perform his or her due diligence to become familiar with all of the risks, and rates of
3 the risks, attendant to that surgery. He will testify that this information is published in
4 the publicly-available clinical literature and is discussed at medical conferences,
5 among colleagues, and at training courses, among other forums. (Expert Rep., p. 9.)

6 Dr. Davies will testify that the only risk unique to mesh-based repairs is mesh
7 erosion. Even then, erosion can occur following a native tissue prolapse repair if
8 permanent sutures are used. Erosion means that the mesh is no longer just in the
9 compartment where it was placed, but rather it has worked its way into a neighboring
10 territory or the healing of the incision was inadequate and it opened back up, exposing
11 the mesh to that area. He will testify that this complication has been given many
12 different terminologies, including mesh exposure, mesh erosion or mesh extrusion.
13 While sometimes true mesh erosion can occur into surrounding organs such as
14 urethra, bowel or bladder, such an outcome is rare and is the exception to the rule. He
15 will testify that when one talks about mesh erosion (which is actually mesh exposure),
16 mostly physicians are referring to a small opening at the vaginal incision where the
17 mesh is now exposed to the lumen of the vagina. He views mesh exposure as a
18 healing issue. He will testify that mesh exposure is not an indication of a defect in the
19 device. In many cases the exposure is asymptomatic and can be treated with estrogen
20 cream or excision in the office. (Expert Rep., p. 9.)

21 Dr. Davies will testify that recent long-term data demonstrates that abdominal
22 mesh-based prolapse repairs have erosion rates similar or higher to those of the
23 vaginal mesh prolapse surgeries (around 11%), with higher failure rates than those
24 reported for vaginal mesh prolapse surgeries (22-27% for anatomic failure and 24-
25 29% for symptomatic failure). Long Term Outcomes Following Abdominal
26 Sacrocolpopexy for Pelvic Organ Prolapse, I. Nygaard, L. Brubaker, et al, JAMA,
27 Will 15, 2013 - Vol 309, No. 19:2016-2024; Def. Ex. 490.) He will also testify that
28

1 abdominal surgery is invasive, and there is a higher incidence of bowel injury or
2 bowel obstruction with abdominal mesh. He will also testify that these complications
3 are unique to the abdominal mesh-based repairs and are potentially more serious for
4 the patient and more difficult to treat. Abdominally-placed mesh also carries a greater
5 risk of injury to the common, internal, and external iliac vessels—a complication that
6 is rarer with transvaginal surgery. (Expert Rep., p. 9.)

7 He will testify that the risk of mesh/tissue contraction is well known and has
8 been known since general surgeons began using polypropylene mesh in hernia repair.
9 He will testify that surgeons understand that the tissue ingrowth process will result in
10 some degree of scar contracture, and the mesh is appropriately tensioned to account
11 for such an event. (Expert Rep., pp. 9-10.)

12 He will testify regarding the multi-center study he authored that evaluated 213
13 patients implanted with the Pinnacle for a mean of 27.2 months (range of 12 -43
14 months). (Expert Rep. pp. 6-7; Davies Dep. at 18:18-19:23; Multi-Center
15 Retrospective Clinical Evaluation of the Long Term Outcomes Following Pelvic
16 Organ Prolapse Repair Using Pinnacle PFR Kit, Female Pelvic Medicine &
17 Reconstructive Surgery, P. Rosenblatt, et al, Vol. 18, No. 8 Supp. 1,
18 September/October 2012:S153; Def. Ex. 612.) He will testify that in that study, no
19 patient reported recurrent prolapse, thus demonstrating that Pinnacle is effective in the
20 long term. The study results also reflect a good safety profile with a low complication
21 rate: 4.2% of patients experienced mesh exposure; 0.9% of patients experienced
22 implant infection; and 0.9% of patients experienced voiding difficulty. While this is
23 an acceptable complication rate, and likely a rate in line with the majority of Pinnacle
24 users, the most-important rate to discuss with a patient is the rate specific to her
25 surgeon. (Expert Rep., pp. 6-7.)

26 Dr. Davies will testify that the Pinnacle is not associated with any new risks to
27 patients that he had not previously encountered with other pelvic floor surgeries. He
28

1 will testify that in his clinical practice, the Pinnacle reduced the risk of many
2 complications he encountered in alternative prolapse surgeries and provided a safe,
3 effective, and less invasive alternative to traditional prolapse repair. Both the Pinnacle
4 and Advantage Fit successfully withstand the forces exerted on the pelvic floor and
5 are durable in the long-term. (Expert Rep., p. 10.)

6 Beyond the specific exhibits, expert report, and testimony references above, Dr.
7 Davies will also base this opinion on his more than 20 years of clinical experience as a
8 urogynecologist, his medical education, and his review and knowledge of the medical
9 literature. This testimony is relevant to establishing the various treatment options
10 available for SUI and POP, and explains the various risks and benefits associated with
11 each of these procedures. In addition, this opinion is relevant because it explains the
12 clinical evidence available and relied upon for the safety and efficacy of the Pinnacle.
13 This opinion is also relevant because it speaks to Boston Scientific's meeting of its
14 duty of care in its warning of the risks associated with the Pinnacle.

15
16 • **Opinion # 6: Mrs. Sanchez's POP and SUI Symptoms Were**
17 **Significant Enough To Require Surgical Treatment**

18 He will testify that Mrs. Sanchez presented to Dr. Kerri Wiltchik on December
19 9, 2009 complaining that her bladder was lower than usual and that she had occasional
20 loss of urine with activity, as well as urinary frequency. He will testify that she was
21 found to have a grade 2 cystocele, which had become symptomatic. On this visit,
22 Mrs. Sanchez also reported pelvic pain, vaginal discharge, constipation, anxiety and
23 depression. (Expert Rep., p. 10; Def. Ex. 15.)

24 He will testify that on December 14, 2009, Mrs. Sanchez was re-evaluated for
25 urinary incontinence. He will testify that she reported losing urine with coughing,
26 sneezing, movement, and intercourse and the need for a daily panty liner. She also
27 again reported urinary frequency during the day, in addition to nocturia 2-3 times.
28

1 Mrs. Sanchez admitted in her deposition that her incontinence was severe, resulting in
2 several episodes of “gushing” urine during activity, resulting in urine leakage onto her
3 clothing. (Expert Rep., p. 10; Def. Ex. 15.) An exam was performed on this date,
4 which confirmed a “large midline cystocele,” indicating that the prolapse had possibly
5 progressed since the previous visit. As reported in Dr. Wiltchik’s deposition, this
6 categorization indicates that Mrs. Sanchez was suffering from significant/severe
7 prolapse. During this appointment, Mrs. Sanchez, who is a nurse, discussed with Dr.
8 Wiltchik multiple different options to treat her conditions, including surgical and non-
9 surgical options.

10 He will testify that Mrs. Sanchez admitted that conservative measures did not
11 help. She also admitted that her pelvic floor complaints were affecting her quality of
12 life. Specific to the prolapse, she reported experiencing dyspareunia, pelvic pressure,
13 the feeling of a bulge in her vagina, difficulty having a bowel movement and general
14 difficulty with intercourse. (Expert Rep., pp. 10-11; Def. Ex. 15.)

15 He will testify that during the pre-operative evaluation on January 6, 2010, Mrs.
16 Sanchez’ pelvic exam showed that the vagina had “no lesions, no excoriations, no
17 abnormal discharge, large midline cystocele.” The uterus was “anterior, no cervical
18 motion tenderness, no fundal tenderness, normal size, shape and consistency.” That
19 visit states to the reader to “see dictated preoperative H&P”. (Expert Rep., p. 17.) He
20 will testify that when Mrs. Sanchez presented to Dr. Wiltchik on January 6, 2010 for a
21 pre-operative evaluation. The exam again showed a “large midline cystocele.” There
22 was no mention of other forms of prolapse.

23 He will testify that Mrs. Sanchez expressed a desire for definitive surgical
24 treatment, which was after one year and eight months of ongoing discussions with Dr.
25 Wiltchick about her options. Mrs. Sanchez reaffirmed her desire for definitive
26 treatment in a pre-operative visit on January 13, 2010. (Expert Rep., p. 10; Def. Ex.
27 15.) Mrs. Sanchez has admitted that conservative measures did not help. (Expert
28

1 Rep., pp. 10-11; Def. Ex. 15.) She also admitted that her pelvic floor complaints were
2 affecting her quality of life. (Expert Rep., pp. 10-11; Def. Ex. 15.) Specific to the
3 prolapse, she reported experiencing dyspareunia, pelvic pressure, the feeling of a
4 bulge in her vagina, difficulty having a bowel movement and general difficulty with
5 intercourse. (Expert Rep., pp. 10-11; Def. Ex. 15.)

6 He will testify that during the pre-operative evaluation on January 6, 2010, Mrs.
7 Sanchez' pelvic exam showed that the vagina had "no lesions, no excoriations, no
8 abnormal discharge, large midline cystocele." The uterus was "anterior, no cervical
9 motion tenderness, no fundal tenderness, normal size, shape and consistency." That
10 visit states to the reader to "see dictated preoperative H&P". (Expert Rep., p. 17.)

11 He will testify that Mrs. Sanchez presented to Dr. Wiltchik on January 6, 2010
12 for a pre-operative evaluation. The exam again showed a "large midline cystocele."
13 There was no mention of other forms of prolapse. During this visit, the decision was
14 made by Mrs. Sanchez and Dr. Wiltchik to proceed with a vaginal hysterectomy and
15 bilateral sacrospinous ligament vaginal vault suspension using an anterior and
16 posterior repair via the Pinnacle mesh kit. A pubovaginal sling with the Advantage
17 Fit sling was also scheduled. Mrs. Sanchez subsequently signed an informed consent
18 to have these procedures. Mrs. Sanchez knew that mesh would be used to address her
19 pelvic floor complaints, and she understood the permanence of the mesh. By virtue of
20 her medical background, she knew about mesh, specifically slings, and felt they were
21 an important treatment option. (Expert Rep., p. 11.)

22 He will testify that on January 13, 2010, Mrs. Sanchez presented to Dr.
23 Wiltchik for definitive therapy of her urinary incontinence and cystocele. Mrs.
24 Sanchez was still losing urine with coughing, sneezing, and movement. She now said
25 that her issue with urinating with intercourse, was "very" embarrassing and the
26 "biggest issue" to her. Mrs. Sanchez also felt occasional fullness and pressure
27 vaginally. Her husband reported that he "hits" something when they have intercourse.
28

1 On physical exam, Dr. Wiltchik found previous laparoscopic incisions and confirmed
2 a “large midline cystocele.” Dr. Wiltchik also noted on this visit that Mrs. Sanchez’s
3 uterus was “incompletely prolapsed.” Dr. Davies will testify that Dr. Wiltchik has
4 testified that she does not believe Mrs. Sanchez was an appropriate candidate for a
5 pessary, and he agrees. (Expert Rep., p. 11; Wiltchik Dep. at 10:1-6.)

6 Beyond the specific exhibits, expert report, and testimony references above, Dr.
7 Davies will also base this opinion on his more than 20 years of clinical experience as a
8 urogynecologist, his medical education, and his review and knowledge of the medical
9 literature. This testimony is relevant to establishing why surgical treatment was a
10 necessary and appropriate treatment option for Mrs. Sanchez given her symptoms and
11 conditions of SUI and POP.

12
13 • **Opinion # 7: Mrs. Sanchez was an appropriate candidate for the**
14 **Pinnacle and Advantage Fit**

15 Dr. Davies will testify that he believes Mrs. Sanchez to a reasonable degree of
16 medical certainty that Mrs. Sanchez was an appropriate candidate for the Pinnacle
17 Pelvic Floor Repair System and the Advantage Fit. (Expert Rep., p. 11.) Mrs.
18 Sanchez was an appropriate candidate for the Pinnacle Pelvic Floor Repair System
19 and the Advantage Fit. (Expert Rep., p. 11.) Indeed, without surgical intervention,
20 her conditions of prolapse and stress urinary incontinence likely would have
21 worsened, while continuing to diminish her quality of life. The benefits outweighed
22 the risks for her, and she was appropriately counseled on the potential risks of the
23 Pinnacle and Advantage Fit devices. Mrs. Sanchez twice expressed a desire for
24 “definitive treatment” and expressly opted for surgery, specifically complete pelvic
25 floor reconstruction. (Expert Rep., pp. 17-18; Def. Ex. 15.)

26 Dr. Davies will testify regarding his opinion that Dr. Wiltchik testified that she
27 was aware of the potential risks of the Pinnacle and Advantage Fit prior to Mrs.
28

1 Sanchez' pelvic mesh surgery and discussed the risks with Mrs. Sanchez. He will also
2 testify that Dr. Wiltchik felt that she was properly trained to implant the Pinnacle and
3 Advantage Fit, and she had a positive clinical experience with both. (Expert Rep., p.
4 8.)

5 Beyond the specific exhibits, expert report, and testimony references above, Dr.
6 Davies will also base this opinion on his more than 20 years of clinical experience as a
7 urogynecologist, his medical education, and his review and knowledge of the medical
8 literature. This testimony is relevant to establishing why surgical treatment was a
9 necessary and appropriate treatment option for Mrs. Sanchez given her symptoms and
10 conditions of SUI and POP.

11
12 **• Opinion # 8: Mrs. Sanchez Understood the Risks and Provided**
13 **Informed Consent For The Procedure**

14 He will testify that the benefits outweighed the risks for Mrs. Sanchez, and she
15 was appropriately counseled on the potential risks of the Pinnacle and Advantage Fit
16 devices. Mrs. Sanchez twice expressed a desire for "definitive treatment" and
17 expressly opted for surgery, specifically complete pelvic floor reconstruction. (Expert
18 Rep., pp. 11, 17-18; Def. Ex. 15.)

19 He will testify that Mrs. Sanchez admitted that conservative measures did not
20 help. She also admitted that her pelvic floor complaints were affecting her quality of
21 life. Specific to the prolapse, she reported experiencing dyspareunia, pelvic pressure,
22 the feeling of a bulge in her vagina, difficulty having a bowel movement and general
23 difficulty with intercourse. (Expert Rep., pp. 10-11; Def. Ex. 15.)

24 He will testify that Mrs. Sanchez expressed a desire for definitive surgical
25 treatment, which was after one year and eight months of ongoing discussions with Dr.
26 Wiltchick about her options. Mrs. Sanchez reaffirmed her desire for definitive
27 treatment in a pre-operative visit on January 13, 2010. (Expert Rep., pp. 10, Exhibit
28

1 15.) Mrs. Sanchez has admitted that conservative measures did not help. (*Id.*) She
2 also admitted that her pelvic floor complaints were affecting her quality of life. (*Id.*)
3 Specific to the prolapse, she reported experiencing dyspareunia, pelvic pressure, the
4 feeling of a bulge in her vagina, difficulty having a bowel movement and general
5 difficulty with intercourse. (Expert Rep., pp. 10-11; Def. Ex. 15.)

6 Beyond the specific exhibits, expert report, and testimony references above, Dr.
7 Davies will also base this opinion on his more than 20 years of clinical experience as a
8 urogynecologist, his medical education, and his review and knowledge of the medical
9 literature. This testimony is relevant to establishing why surgical treatment was a
10 necessary and appropriate treatment option for Mrs. Sanchez given her symptoms and
11 conditions of SUI and POP, and her understanding of the risks associated with each
12 procedure before she agreed to proceed with the surgery. In addition, this opinion is
13 relevant because it speaks to Boston Scientific's meeting of its duty of care in its
14 warning of the risks associated with the Pinnacle.

15
16 • **Opinion # 9: Mrs. Sanchez's Pre-Implant Conditions Explain Her**
17 **Current Pain Disorders**

18 He will testify that prior to the surgery giving rise to this case, Mrs. Sanchez
19 suffered from two pelvic floor disorders, pelvic organ prolapse and stress urinary
20 incontinence. Pelvic organ prolapse is a common problem for women. (Expert Rep.,
21 p. 1.)

22 He will testify regarding Mrs. Sanchez's long history of pelvic pain that
23 predated her pelvic mesh surgery. He will also testify that she suffers from other pain
24 disorders, including neuralgia affecting her left leg and foot, back pain, IBS, and
25 ovarian/abdominal pain related to cysts. Mrs. Sanchez also experienced dyspareunia
26 prior to her January 2010 surgery. He will testify that Mrs. Sanchez experiences no
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28

1 new complaint today that did not predate her pelvic mesh surgery. He will testify that
2 these pain disorders explain Mrs. Sanchez's complaints today. (Expert Rep., p. 19.)

3 He will testify that Mrs. Sanchez had a complicated medical history well before
4 her pelvic mesh surgery. He will testify that she had delivered four children vaginally,
5 which is a likely primary cause of her pelvic floor complaints. At the time of her
6 January 2010 surgery, her medical history was positive for:

- 7 1. Factor 5 Leiden deficiency
- 8 2. History of Thrombosis
- 9 3. Hypertension
- 10 4. Hyperlipidemia
- 11 5. Irritable bowel syndrome with chronic constipation
- 12 6. Migraine headaches
- 13 7. Chronic lower back pain
- 14 8. History of ovarian cysts

15 (Expert Rep., p. 16; Def. Ex. 15.)

16 He will testify that as of January 2010 Mrs. Sanchez's past surgical history included:

17 Surgical History:

- 18 1. Tubal sterilization in 1998
- 19 2. Laparoscopic ovarian cystectomy in 2004
- 20 3. Multiple epidural injections for chronic back pain
- 21 4. Diagnostic hysteroscopy with D&C done in for menorrhagia in 2007
- 22 5. Therapeutic abortion

23 (Expert Rep., p. 16; Def. Ex. 15.)

24 He will testify that as of January 2010 Mrs. Sanchez's past medications included:

25 Medications:

- 26 1. Zocore 20 mg daily
- 27 2. Prithomax 50 mg twice daily

- 1 3. Asprin 81 mg Daily
- 2 4. Cymbalta 60 mg twice daily
- 3 5. Myospan 500mg daily
- 4 6. Laytension 10 mg daily
- 5 7. Wellbutrin SR 150mg twice daily

6 (Expert Rep., pp. 16-17; Def. Exs. 14, 15.)

7 Beyond the specific exhibits, expert report, and testimony references above, Dr.
8 Davies will also base this opinion on his more than 20 years of clinical experience as a
9 urogynecologist, his medical education, and his review and knowledge of the medical
10 literature. This testimony is relevant to establishing Mrs. Sanchez's preexisting
11 medical conditions and how such medical conditions contribute to her current
12 complaints. This testimony is relevant because it rebuts Plaintiffs' assertion that
13 Plaintiffs' injuries are attributable to the Pinnacle.

14
15 • **Opinion # 10: The Pinnacle Is Not The Likely Cause of Mrs.**
16 **Sanchez's Complaints of Erosion or Dyspareunia**

17 **A. The Operative Procedure**

18 He will testify that on January 13, 2010, Mrs. Sanchez was admitted for surgery
19 and underwent the planned vaginal hysterectomy, bilateral sacrospinous ligament
20 vaginal vault suspension, anterior and posterior repair with the Pinnacle, as well as
21 placement of the Advantage Fit sling. The surgery also included a diagnostic
22 cystoscopy. (Expert Rep., p. 11.) A levator myorrhaphy was performed, which
23 involves plication of the levator ani muscles. In this type of repair, it is not the
24 connective tissue on top of the rectum that is plicated from side-to-side side, but
25 rather, the muscular tissue of the side wall is stitched on either side to meet in the
26 midline. (Expert Rep., p. 12; Def. Ex. 15.)

1 He will testify that subsequent to January 13, 2010, Mrs. Sanchez had multiple
2 follow up visits. According to the operative note, after Mrs. Sanchez underwent the
3 vaginal hysterectomy, the peritoneum, but not the cuff, was closed. Dr. Wiltchik then
4 moved on to the cystocele repair using some hydrodistension with 10 cc of lidocaine,
5 and a vertical incision was made with the scalpel. A blunt dissection was used to
6 tunnel out to the sacrospinous ligaments and the ischial spines. Sutures were placed
7 on both sides to help anchor the mesh in its position. The mesh arms were placed into
8 the sacrospinous ligaments. The operative note describes the lateral arms being
9 placed but does not specifically mention them going in to the arcus tendineus.
10 Proximal sutures were threaded through to keep the mesh in place proximally. Excess
11 mesh was trimmed and it was tacked down with a single stitch in the midline distally
12 near the urethra. (Expert Rep., p. 12; Def. Ex. 15.)

13 With both of these incisions now open (the vaginal cuff and the anterior repair
14 incision), the rectocele was then addressed. It appears that the perineorrhaphy was
15 dissected out and then a tunnel was made under the vaginal mucosa going up to the
16 posterior aspect of the vaginal cuff. A piece of mesh previously trimmed for the
17 original anterior apical was now placed over the rectocele all the way up to the vaginal
18 cuff. The sides were anchored in place with a single stitch of 2-0 vicryl and all the
19 defects began to be closed. The anterior vaginal mucosa was re-approximated with a
20 single stitch of 0-vicryl and figure of eight sutures for hemostasis. Then the levator
21 ani muscles were brought together in the midline, similar to a levator myorrhaphy.
22 The posterior vaginal mucosa was trimmed and re-approximated with 0-vicryl in a
23 running, locking stitch. After all of this, the standard procedure for placement of a
24 synthetic suburethral sling was noted via a retropubic approach. (Expert Rep., p. 12;
25 Def. Ex. 15.)

26 B. Mrs. Sanchez's Follow Up Care and Treatment
27
28

- 1 • 1/26/10 – The patient has a 2 week post-operative checkup and her pelvic exam
2 showed the vagina is healing well, but bacterial vaginosis is diagnosed and oral
3 clindamycin is used to treat it. Bacterial vaginosis is a clinical and/or
4 microscopic diagnostic term referring to a shift in the vaginal bacteria from
5 predominately lactobacilli to other bacteria, which are usually less commonly
6 populating the vaginal flora. This is usually caused by the presence of foreign
7 sutures in the vagina, which change the vaginal pH and can lead to bacterial
8 vaginosis. Importantly, this diagnosis is not related to the use of the mesh in
9 pelvic organ prolapse or incontinence surgery. It is just as common in surgeries
10 using no mesh, such as native tissue repair procedures. In fact, most cases of
11 bacterial vaginosis are unrelated to surgery and occur spontaneously in women,
12 which again show that the use of the Pinnacle and Advantage Fit had no
13 relation to this occurrence. (Expert Rep., p. 12; Def. Ex. 15.)
- 14 • 2/15/10 – The patient is 5 weeks post-operative complaining of a vaginal
15 discharge that is tan- colored and foul smelling. She was treated this time with
16 Flagyl. (Expert Rep., p. 12; Def. Ex. 15.)
- 17 • 2/23/10 – The patient has a 6 week post-operative checkup. She has a normal
18 visit and all post-operative restrictions are lifted. She feels well and has
19 completed her antibiotics and her discharge has resolved. She has no
20 complaints. (Expert Rep., p. 12; Def. Ex. 15.)
- 21 • 4/9/10 – (office procedure) The patient is three months status post surgery and
22 she has vaginal bleeding with a pink discharge necessitating the use of a panty
23 liner daily. She is also feeling a scratchy sensation inside the vagina and
24 requests definitive treatment. She has no pelvic pain, no dyspareunia, and no
25 dysuria. On examination, there is a small amount of exposed mesh on the cuff
26 at the nine o'clock position, which was excised and treated with silver nitrate.
27
28

1 There is also midline concern of the pending mesh erosion. She is started on
2 estrogen vaginal replacement. (Expert Rep., p. 12; Def. Ex. 15.)

3 • 5/3/10 - (office procedure) The patient is now almost four months status post
4 surgery. The discharge has resolved, there is no vaginal bleeding, no pelvic
5 pain, and she feels well. On exam, there is again a small amount of exposed
6 mesh at the nine o'clock, which is exactly the same position as it was at the last
7 visit. It again was excised and silver nitrate was reapplied. Again the midline
8 of the anterior mucosa is thin, which is concerning for a pending mesh erosion,
9 but none is noted that day. She is to continue with the Vagifem intravaginally.
10 (Expert Rep., pp. 12-13; Def. Ex. 15.)

11 • 5/20/10 – The patient is diagnosed with bacterial vaginosis and she is treated
12 with metro gel intravaginally. (Expert Rep., p. 13; Def. Ex. 15.)

13 • 6/14/10 - The patient is now five months status post surgery. She reports a
14 decent amount of vaginal discharge that is pink tinged. She has been using the
15 Vagifem without improvement. On exam, there is a large amount of exposed
16 mesh in the midline and large amounts of pink tinged discharge. There is no
17 discomfort. (Expert Rep., p. 13; Def. Ex. 15.)

18 • 6/18/10 – (hospital procedure) The patient undergoes excision of exposed mesh
19 in the operating room and a 5mm portion of mesh was excised while the vagina
20 epithelium was undermined and then approximated. (Expert Rep., p. 13; Def.
21 Ex. 15.)

22 • 7/2/10 - The patient was two weeks status post operative excision of mesh
23 exposure. As expected, she had some vaginal discharge that was bloody but she
24 had no pain with urination. (Expert Rep., p. 13; Def. Ex. 15.)

25 • 7/16/10 – The patient is about four weeks out from her vaginal mesh erosion
26 excision. At this visit, the patient reported feeling well. There is no abnormal
27 vaginal bleeding or vaginal discharge and no pain with urination. On exam, the
28

excisions were all well healed and the mesh was not exposed. (Expert Rep., p. 13; Def. Ex. 15.)

- 9/1/10 - (office procedure) The patient re-presented approximately two and a half months out from her vaginal mesh exposure excision. She complained of abnormal vaginal bleeding and a small amount of pink discharge. She also has discomfort with intercourse and she stated that her husband cannot fully penetrate her due to her pain. She has no dysuria and no other pelvic pain. On exam there is a midline defect noted of exposed mesh. The mesh is excised in the office and silver nitrate is applied. (Expert Rep., p. 13; Def. Ex. 15.)
- 9/17/10 – The patient presents approximately two and a half weeks later with no complaints, but does have some spotting and discharge. On her gynecological exam, a large area of mesh is exposed in the midline and is bleeding. She is now scheduled for a repeat attempt at excision and closure in the operating room. (Expert Rep., p. 13; Def. Ex. 15.)
- 10/4/10 – The patient is seen for preoperative visit to arrange for excision procedure. Again, the exposure area in the midline is appreciated and the mucosa is bleeding. The patient is scheduled for the mesh excision. A perineorrhaphy is also scheduled for the same time, despite the fact there are no complaints of outlet relaxation syndrome and no noted abnormalities on the pelvic exam. (Expert Rep., pp. 13-14; Def. Ex. 15.)
- 10/12/10 - (hospital procedure) The patient undergoes excision of exposed mesh and a perineorrhaphy. There is an indication for the vaginal mesh excision, but there is no indication given for the perineorrhaphy. During the course of the surgery not only is the mesh excised as well as the perineorrhaphy performed, but excess vaginal mucosa was trimmed away and the defect was closed. (Expert Rep., p. 14; Def. Ex. 15.)

- 1 • 10/26/10 - The patient returned for a two week post-operative visit complaining
2 of a foul vaginal discharge, but no vaginal bleeding, pelvic pain, or dysuria.
3 She is treated for bacterial vaginosis with Flagyl. (Expert Rep., p. 14; Def. Ex.
4 15.)
- 5 • 11/15/10 - The patient is now approximately five weeks status post second
6 vaginal mesh excision in the operating room. She complains of abnormal
7 vaginal bleeding daily for the past week and has an odor. On examination, she
8 is found to have a blood tinged thick discharge. She is started on metro gel
9 intravaginally to treat this. (Expert Rep., p. 14; Def. Ex. 15.)
- 10 • 11/23/10 - The patient is now approximately six weeks out from her second
11 vaginal mesh erosion excision in the operating room. There is no further
12 bleeding or discharge and she has no complaints. On examination, all incisions
13 appear to be well healed. She is now allowed to resume all activities without
14 restrictions. (Expert Rep., p. 14; Def. Ex. 15.)
- 15 • 4/11/11 - (office procedure) The patient is now approximately a year and
16 quarter out from her original surgery and six months out from her second
17 vaginal mesh erosion excision in the operating room. She complains of
18 abnormal vaginal bleeding which she reports becomes worse after intercourse.
19 She also has pelvic pain and sensations that her bladder is weak. On exam,
20 there is a 1-2 cm midline defect with exposed mesh, which is excised and again
21 silver nitrate is applied. She was started on Vagifem and instructed to refrain
22 from intercourse. A LEEP procedure was planned in the office. (Expert Rep.,
23 p. 14; Def. Ex. 15.)
- 24 • 4/25/11 - The patient underwent a LEEP procedure in the office to excise the
25 areas of mesh exposure. The patient is to return for follow up in the near future.
26 (Expert Rep., p. 14; Def. Ex. 15.)
27
28

- 1 • 5/11/11 - The patient returns for a post LEEP follow up. The discharge was
2 almost gone at this time. The patient was feeling well. On exam, exposed
3 mesh was not seen and no discharge was appreciated. She is to continue to
4 follow up as needed. (Expert Rep., p. 14; Def. Ex. 15.)
- 5 • 5/23/11 - The patient returns and reports no discharge and no pain. She is using
6 the Vagifem regularly and has no complaints. On exam, no areas of exposed
7 mesh are noted. She will continue with the Vagifem twice weekly and a return
8 visit was scheduled. (Expert Rep., p. 14; Def. Ex. 15.)
- 9 • 7/8/11 - (office procedure) The patient again has a vaginal discharge that is
10 blood tinged. There is no pain, but she reports that her husband does note
11 during intercourse a sensation she attributes to exposed mesh on occasion. On
12 examination, small areas of mesh protruding through the vaginal mucosa
13 anteriorly were appreciated, but in random areas not just in the midline. The
14 previous areas of exposed mesh are now well covered. The exposed mesh areas
15 are trimmed with scissors and silver nitrate applied. Patient was to follow up in
16 two weeks. (Expert Rep., p. 15; Def. Ex. 15.)
- 17 • 8/30/11 - The patient again has vaginal abnormal bleeding. She is using her
18 Vagifem regularly and she reports that her husband states that sensation she
19 attributes to the exposed mesh has improved. The patient is concerned that her
20 bladder is falling down. On exam, there is a small area of mesh protruding
21 through the anterior mucosa in the midline. The previous areas of exposed
22 mesh are now well covered. At this point the patient is to continue her present
23 treatment. (Expert Rep., p. 15; Def. Ex. 15.)
- 24 • 10/17/11 - (office procedure) The patient presents two months later. She still
25 has a brownish discharge and some discomfort with intercourse. She is still
26 using the Vagifem regularly. She is experiencing more pressure when she
27 performs valsalva and worries that her prolapse has returned. On examination
28

1 there is a 1 cm midline defect of exposed mesh, which again was excised and
2 silver nitrate was applied. At this point, she will continue her Vagifem tablets
3 twice weekly and will return to have more mesh excised in the office. (Expert
4 Rep., p. 15; Def. Ex. 15.)

- 5 • 8/29/12 - (office procedure) The patient again presents with problems with
6 vaginal discharge with a pink tinge to it and discomfort with intercourse due to
7 exposed mesh. She reports her husband can occasionally feel what she
8 interprets as the exposed mesh. She also notes that her bladder is dropping. On
9 examination there is a small 1cm area of exposed mesh in the mid line adjacent
10 to the vaginal cuff. It is excised and silver nitrate is applied. A small cystocele
11 is noted. Patient will continue treatment plan and will return to the office as
12 needed. (Expert Rep., p. 15; Def. Ex. 15.)

- 13 • 2/6/13 - (office procedure) The patient again has vaginal discharge with
14 occasional spotting and rarely notices an odor. She reports that her husband
15 barley feels any abnormalities with intercourse. She denies any pelvic pain or
16 incontinence. On the gynecological exam, multiple areas of exposed mesh
17 anteriorly in a random pattern are appreciated not only in the midline. These
18 exposed areas are excised with scissors and silver nitrate is applied. She is
19 again encouraged to return regularly so the areas can be treated. (Expert Rep., p.
20 15; Def. Ex. 15.)

- 21 • 5/21/13 - (office procedure) The patient presents again, now three months out
22 from her last visit. She again has discharge that is pink tinged. She feels some
23 more cramping and has not been using the vaginal estrogen. She has not let her
24 problems interfere with normal activity. She has no dyspareunia or pain with
25 urination. On exam, there are multiple areas of exposed mesh anteriorly near
26 the vaginal cuff in a random pattern on both sides of the midline. These areas
27 were again excised with scissors and silver nitrate applied. She is encouraged
28

1 to use the Vagifem to promote healing over the exposed mesh areas. (Expert
2 Rep., pp. 15-16; Def. Ex. 15.)

- 3 • 11/21/13 - Dr. Margolis, expert witness for the Mr. and Mrs. Sanchez,
4 examined Mrs. Sanchez which revealed a cystourethrocele (not graded) and a
5 positive stress test. In addition, he notes “there is a large wide area of mesh
6 erosion through the anterior vaginal wall.” (Expert Rep., p. 16; Def. Ex. 15.)

7 C. Mesh Erosion Is Not Evidence Of A Defect In The Pinnacle or
8 Advantage.

9 Dr. Davies will explain that when one talks about mesh erosion (which is
10 actually mesh exposure), mostly physicians are referring to a small opening at the
11 vaginal incision where the mesh is now exposed to the lumen of the vagina. Dr.
12 Davies will testify that he views mesh exposure as a healing issue, and that mesh
13 exposure is not an indication of a defect in the device. He will testify that in many
14 cases the exposure is asymptomatic and can be treated with estrogen cream or
15 excision in the office. (Expert Rep., p. 9.)

16 D. Mrs. Sanchez Was At Higher Risk For Mesh Erosion Because The
17 Pinnacle Was Placed In The Wrong Plane

18 Dr. Davies will testify that there is an increased risk of erosion and poor healing
19 is if the mesh is located in the wrong surgical plane. Even in the best of surgical
20 hands, mesh malplacement can occur. If mesh is located in a superficial plane, the
21 patient is at higher risk for erosion. (Expert Rep., p. 18; Def. Ex. 15; Davies Dep. at
22 209:5-12, 209:23-212:1, 212:13-213:5, 214:1-18, 218:24-220:2; 221:7-223:18, 224:3-
23 22, 379:8-15; Karamitsos Dep. at 87:20-23, 87:25-88:1, 88:5-90:9, 97:20-98:2, 105:4-
24 7, 105:9-10, 105:11-15, 105:17-21, 105:23-106:11, 106:13-18, 107:13-18, 107:20-
25 21, 108:10-13, 108:15.) He will testify that Mrs. Sanchez’ surgical mesh was located
26 in the wrong surgical plane. (Expert Rep., p. 18; Def. Ex. 15, Davies Dep. at 209:5-
27 12, 209:23-212:1, 212:13-213:5, 214:1-18, 218:24-220:2; 221:7-223:18, 224:3-22,
28

1 379:8-15; Karamitsos Dep. at 87:20-23, 87:25-88:1, 88:5-90:9, 97:20-98:2, 105:4-7,
2 105:9-10, 105:11-15, 105:17-21, 105:23-106:11, 106:13-18, 107:13-18, 107:20-
3 21,108:10-13, 108:15.)

4 Dr. Davies relies on the following statements of Dr. Karamitsos in coming to
5 his opinion:

6 Dr. Karamitsos's testimony that Dr. Wilchik did not perform a hydrodissection
7 during the implant procedure. Karamitsos Deposition at 54:21-24. Dr. Wilchik
8 instead used a sharpened blunt dissection. *Id.* at 55:23-54:3. It is Dr. Karamitsos'
9 custom and practice to perform a hydrodissection. *Id.* at 55:5-9. A hydrodissection
10 generally injects saline into the plane of tissue that the implanter intends to place the
11 mesh. *Id.* at 55:21-22.

12 Dr. Karamitsos's testimony that she employs more hydrodissection than Dr.
13 Wiltchik performed on Mrs. Sanchez during the implant procedure. Karamitsos Dep.
14 at 87:20-88:10. Dr. Karamitsos will testify that she would typically infiltrate up to 60
15 cc's of injectable saline into the anterior and posterior spaces, which is more fluid than
16 Dr. Wiltchik used in Mrs. Sanchez's procedure. *Id.* at 88:12-89:6. The medical
17 records will show that Dr. Wiltchik only used 10 cc's of lidocaine, which Dr.
18 Karamitsos will testify is not sufficient. *Id.* at 105:4-106:18, 107:13-21. As she will
19 describe, Dr. Karamitsos' method opens up the space, allowing her to see if it
20 blanches; thereby visualizing whether the opening was too superficial. Using
21 hydrodissection, if she could see more of a rise overall, it would be indicative of a
22 space that is deeper and more appropriate for mesh placement. *Id.* at 88:14-20. Dr.
23 Karamitsos will testify that using less volume for hydrodissection could lead to
24 superficial placement of the device (*Id.* at 108:10-15), and that if she witnessed Dr.
25 Wiltchik not performing a hydrodissection for Mrs. Sanchez's procedure today, she
26 would tell her that she thinks Dr. Wiltchik should use hydrodissection to dissect. *Id.*
27 at 97:20-23.

1 Dr. Davies will testify that Mrs. Sanchez had a LEEP procedure done on April
2 25, 2011. Use of the thermal wire loop in a LEEP procedure could very easily cause
3 damage to the bladder wall with the potential for an immediate or delayed creation of
4 a vesicovaginal fistula. The fact that this procedure was done and no bladder injury
5 occurred supports my opinion that the mesh was located in a plane that was too
6 superficial, thereby further away from the bladder which escaped injury from the
7 thermal electrode of the LEEP procedure. (Expert Rep., p. 18; Davies Dep. at 370:9-
8 374:6; Def. Ex. 15.) Dr. Davies will testify that he has not seen or heard about
9 physicians utilizing a LEEP procedure to address a mesh excision. Davies Dep. at
10 374:7-18.)

11 E. Mrs. Sanchez Was At Higher Risk For Mesh Erosion Because Erosion Is
12 More Likely With Performance of Hysterectomy With A Mesh-Based
13 Repair Increases Risk of Erosion

14 He will testify that the performance of a hysterectomy at the same time as a
15 mesh-based repair is a risk factor for erosion. (Expert Rep., p. 18; Davies Dep. at
16 195:5-196:16; Risk factors for mesh extrusion after prolapse surgery: a case-control
17 study. Female Pelvic Medicine & Reconstructive Surgery, Ghafar, E, et al. 18(6):357-
18 61 (Nov.-Dec. 2012).) Even in his own research at The Penn State Milton S. Hershey
19 Medical Center, which was presented at the American Urogynecological Society
20 meeting in October 2012, the data on anterior/apical prolapse repair with mesh
21 showed a higher incidence of mesh exposure if concomitant hysterectomy was
22 performed compared to no hysterectomy. (Pre-operative risk factors for mesh erosion
23 in patients undergoing anterior/apical vaginal prolapse repair—a retrospective
24 analysis, Diemling, T, et al., Poster presentation at American Urogynecologic Society
25 Annual Meeting (Oct. 2012).) Given that Mrs. Sanchez underwent a concomitant
26 hysterectomy and mesh-based prolapse repair, she was at increased risk for mesh
27 exposure or erosion. (Expert Rep., p. 18; Def. Ex. 15.)
28

1 F. Mrs. Sanchez Was At Higher Risk For Mesh Erosion Because It Is More
2 Likely With A Midline Vertical T-Incision

3 He will testify that there is an increase in the risk of mesh erosion because of
4 the use of the midline vertical incision used in the anterior colporrhaphy, especially if
5 this incision joins the incision for the hysterectomy in a way that we refer to as a T-
6 incision. The Junction of the 'T' has the poorest vascular supply and thus puts a
7 patient at risk for mesh erosion. (Expert Rep., p. 18; Def. Ex. 15.)

8 G. Mrs. Sanchez Was At Higher Risk For Mesh Erosion Because It Is More
9 Likely To Occur In Anterior Repairs Than In Posterior Repairs

10 He will testify that mesh erosion is more likely in anterior repairs than in
11 posterior repairs. He will testify that if a property of the mesh was the problem, there
12 should not be a difference. Instead, it is well known that the nature of the vaginal
13 lining under the bladder is a thinner tissue than the vaginal tissue over the rectum.
14 Hence, placing the mesh under a thicker layer of tissue (posteriorly over a rectocele)
15 leads to less mesh erosion than placing it under thinner tissue (anteriorly under a
16 cystocele). These concepts also explain why native tissue repairs of rectoceles have a
17 lower failure rate than native tissue repairs of cystoceles. (Expert Rep., pp. 19-20; Def.
18 Ex. 15.)

19 H. Mrs. Sanchez's Dyspareunia Is Most Likely Caused By Performance Of
20 Perineorrhaphy and/or Levator Myorrhaphy

21 He will testify that in regards to the complaint of dyspareunia (a condition noted
22 in 2008 before her pelvic floor surgery), the performance of the perineorrhaphy places
23 Mrs. Sanchez at a higher risk of that complication. While areas of mesh erosion can
24 lead to dyspareunia, Mrs. Sanchez has also had two procedures done relatively close
25 together in time that can themselves lead to dyspareunia. She has had either a
26 perineorrhaphy and/or levator myorrhaphy done on two occasions during this time
27 frame. The first was done at the original repair and the second was done at her second
28

1 mesh excision procedure in October 2010. While some of the operative reports
2 describe the procedure as a perineorrhaphy, the use of the levator muscles being
3 brought across the midline suggests that it was a levator myorrhaphy. In his years of
4 experience and by review of the literature, doing one of these procedures will place a
5 patient at increased risk of dyspareunia. This is particularly true for the second
6 procedure in which she was already complaining of dyspareunia. (Expert Rep., p. 20;
7 Def. Ex. 15.)

8 He will testify that the more likely cause for her partner's inability to fully
9 penetrate during intercourse is the performance of not one, but two, perineorrhaphies
10 or levator myorrhaphies. These procedures narrow the vaginal caliber or lumen, thus
11 making it seem like the vagina is short, and a partner cannot fully penetrate without
12 pain to the woman. (Expert Rep., p. 20; Def. Ex. 15.) He will explain that scarring
13 and shortening associated with the mesh has never been described in Mrs. Sanchez's
14 records nor in the exam provided by the plaintiff's expert, Dr. Margolis. (Expert Rep.,
15 p. 20; Def. Ex. 15.)

16 Additionally, in the procedure describing the intraoperative excision and
17 closure of the mesh erosion, the records describe the cutting away the excess vaginal
18 mucosa. Given that some vaginal mucosa was missing from the vaginal wall at that
19 location, it is unlikely that there would be any excess vaginal mucosa at all.
20 Trimming away of vaginal mucosa likely inhibited Mrs. Sanchez' healing process.
21 (Expert Rep., p. 20; Def. Ex. 15.)

22 Beyond the specific exhibits, expert report, and testimony references above, Dr.
23 Davies will also base this opinion on his more than 20 years of clinical experience as a
24 urogynecologist, his medical education, and his review and knowledge of the medical
25 literature. This testimony is relevant to explaining Mrs. Sanchez's surgical procedure,
26 and the medical care and treatment in connection with the Pinnacle and Advantage
27 devices. This testimony is also relevant because it rebuts Plaintiffs' assertion that
28

1 Plaintiffs' injuries are attributable to a defect in the Pinnacle. This testimony also
2 explains that Mrs. Sanchez's complications are more likely attributable to alternative
3 causes, and rebuts Plaintiffs' assertion that Plaintiffs' injuries are attributable to the
4 Pinnacle.

5
6 **IV. Additional Documents Boston Scientific May Use During Dr. Davies's**
7 **Testimony To Support His Opinions:**

8 While Boston Scientific does not anticipate the need to use the majority of these
9 documents, the following list reflects all documents relied upon by Dr. Davies in
10 forming his opinions. In addition, as a urogynecologist and surgeon, Dr. Davies is
11 familiar with additional articles in the medical literature, as reflected below.

Title	Author	Date	Bate s Rang e	Def. Ex.	Opinions Supported
Pinnacle Pelvic Floor Repair Kits Anterior/Apical Directions for Use	Boston Scientific Corp.	12/12/ 07		6	5
Directions For Use – Advantage Fit	BSC			7	5
AUGS Position Statement		2014- 01-07		54	1 - 10

AUS Position Statement on Restriction of Surgical Options for Pelvic Floor Disorders				55	1 - 10
Pelvic Floor Repair Kit Clinical Experience Summary Ver. AG dated 11-13-2012.			BSC M082 0000 5433- 21	197	1 - 10
Pelvic Floor Repair Kit Clinical Experience Summary Ver. AH dated 2-13-2013.			BSC M082 0000 8749- 839	198	1 - 10
Boston Scientific internal memo dated 11-10- 2006 titled Sling Choices for Treatment of Female Stress Urinary Incontinence.			BSC M053 0005 0858- 9	199	1 - 10
Advantage Family Risk Analysis Report Ver. AJ dated 7-19-2001.			BSC M031 0000 6382- 468	200	1 - 10

Pinnacle Pelvic Floor Repair Kit Clinical Risk/Benefit Analysis Ver. AB dated 6-10-2008.	BSC M038 0000 8712- 238	201	1 - 10
Pinnacle Pelvic Floor Repair Kit Clinical Risk/Benefit Analysis Ver. AC dated 11-20-2008.	BSC M038 0000 8766- 794	202	1 - 10
Pinnacle Pelvic Floor Repair Kit Clinical Risk/Benefit Analysis Ver. AD dated 3-6-2009.	BSC M038 0000 8795- 820	203	1 - 10
Pinnacle Pelvic Floor Repair Kit Clinical Risk/Benefit Analysis Ver. AE dated 6-24-2009.	BSC M019 0000 5348- 375	204	1 - 10
Memos to File from Walsh re Capio/Pinnacle		2009- 09-09	259 1 - 10
Polyform CRBA Version 2		2012- 03-12	330 1 - 10
Memo from Walsh re: Patient Risk		2009- 10-16	354 1 - 10

Email re: SGS Pinnacle Study		2010- 03-11		357	1 - 10
Email re: Fellows Study		2010- 03-17		358	1 - 10
Multi-Center Retrospective Clinical Evaluation of the Long Term Outcomes Following Pelvic Organ Prolapse Repair Using Pinnacle PFR Kit, IUGA	Dr. Peter Rosenblatt	2012- 04-06	BSC M052 0002 0153- 55	359	1 - 10
AUGS Position Statement on Restrictions of Surgical Options forPFD FINAL.pdf	AUGS	2013- 03-26	BSC M062 0027 6064- 68	390	1 - 10
Exemplar - Protegen	BSC			410	1 - 10
Pinnacle PFR Kit Clinical Risk/Benefit Analysis Ver. AA.			BSC M038 0000 8693- 711	211	1 - 10
Multi-Center Retrospective Clinical Evaluation of	P. Rosenblatt		BSC M052 0002	359	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
the Long Term Outcomes Following Pelvic Organ Prolapse Repair Using Pinnacle PFR Kit (Abstract), IUGA.			0153-55		
AUGS Statement	AUGS	2013-03-26	BSC M062 0027 6069-71	391	1 - 10
AUGS Position Statement	AUGS	2014-01-03		392	1 - 10
IUGA Position Statement	IUGA			393	1 - 10
Position Statement on Mesh Mid-Urethral Slings for Stress Urinary Incontinence		AUA		394	1 - 10
R de Tayrac, A. Gervaise and H. Fernandez, <i>Cure De Cycstocoele Voie Basse Par Prothese Sous-Vesicale Libre</i> , J Gynecol Obstet Biol Reprod				412	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
2002; 31:597-599					
V. Lucente, D. Hale, D. Miller and J. Madigan, <i>A Clinical Assessment of GYNEMESH PS for the Repair of Pelvic Organ Prolapse</i> , J Pelvic Medicine & Surgery, Vol 10, Supp 1, 2004; 35				413	1 - 10
R. de Tayrac, L. Ouzaid, P Costa, V. delmas and Chu, <i>Anterior sacrospinous ligament fixation associated with paravaginal repair using the pinnacle device. An anatomical study</i> , Int Urogynecol J (2009) 20 (Suppl 2):S73-S239:S172				414	1 - 10
D.P. Miller, <i>Short Term Outcomes and Pre-Operative Events After a New Transvaginal Anterior and Opical Mesh Repair</i> , Int Urogynecol J (2009) 20 (Suppl 2):S73-S239:S115				415	1 - 10
A. Renganathan, M. Basu and J. Duckett, <i>A Series of Advantage Suburethral Slings</i> , J Obstet & Gynecol, August 2001; 31:S21-S23				416	1 - 10
R. De Tayrac, S. Gaillet, J.L. Faillie, L.				417	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
Boileau, G. Triopon, P. Costa, P. Mares and V. Letouzey, <i>Analysis of Learning Curve of Bilateral Anterior Sacrospinous Ligament Suspension with Mesh</i> Int Urogynecol J (2011) 22 (Suppl 1):S1-S195:S90					
K.J. Brouard, S. Jeffery, <i>High number of complications following insertion of the pinnacle pelvic floor repair kit: a cause for concern</i> , Int Urogynecol J (2012) 23 (Supl 2):S43-S244:S156				418	1 - 10
Hysterectomy for Chronic Pelvic Pain of Presumed Uterine Etiology				419	1 - 10
The Maine Women's Health Study: I. Outcomes of Hysterectomy				420	1 - 10
P.K. Amid, I.L. Lichtenstein, A.G. Shulman and M. Hakakha, <i>Biomaterials for "Tension-Free" Hernioplasties and Principles of Their Applications</i> Minerva Chir 1995;50:821-26				421	1 - 10
The Effectiveness of Hysterectomy for Chronic Pelvic Pain				422	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
J.M. Bellon, J. Bujan, L. Contreras, A. Carrera-San Martin and F. Jurado, <i>Comparison of a New Type of Polytetrafluoroethylene Patch (Mycro Mesh) and Polypropylene Prosthesis (Marlex) for Repair of Abdominal Wall Defects</i> , J Am Col Surgeons; July 1996; Vol 183:11-18				423	1 - 10
A. Olsen, V. Smith, et al, <i>Epidemiology of Surgically Managed Pelvic Organ Prolapse and Urinary Incontinence</i> , Obstet & Gynec; Vol 89, No 4, Apr 1997:501-506				424	1 - 10
C.G. Flood, H.P. Drutz and L. Waja, <i>Anterior Colporrhaphy Reinforced with Marlex Mesh for the Treatment of Cystoceles</i> , Int Urogynecol J (1998) 9:200-204				425	1 - 10
U. Ulmsten, P. Johnson and M. Rezapour, <i>A Three-year Follow Up of Tension Free Vaginal Tape for Surgical Treatment of Female Stress Urinary Incontinence</i> , Br J Obstet Gynaecol,				426	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
April 1999, Vol 106, pp.345-350					
I. Olsson and U.B. Kroon, <i>A Three-year Follow Up of Tension Free Vaginal Tape for Surgical Treatment of Female Stress Urinary Incontinence</i> , Gynecol Obstet Invest 1999;48:267-269				427	1 - 10
R. Migliar, M. DeAngelis, G. Madeddu and T. Verdacchi, <i>Tension-Free Vaginal Mesh Repair for Anterior Vaginal Wall Prolapse</i> , Eur Urol 2000;38:151-155				428	1 - 10
Effectiveness of Hysterectomy				429	1 - 10
Abdominal Wall Hernias Principles and Management				430	1 - 10
T. Merlin, E. Arnold, P. Petros, et al, <i>A Systematic Review of Tension-Free Urethropexy for Stress Urinary Incontinence: Intravaginal Slingplasty and the Tension-Free Vaginal Tape Procedures</i> , BJU International (2001), 88, 871-880				431	1 - 10
A. Liapis, P. Bakas and G. Creatsas, <i>Burch Colposuspension and Tension-Free Vaginal Tape in the Management</i>				432	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
<i>of Stress Urinary Incontinence in Women</i> , Eur Urol 41 (2002):469-473					
K. Kobashi and F. Govier, <i>Management of Vaginal Erosion of Polypropylene Mesh Slings</i> , J Urol; Vol.169, 2242-2243, June 2003				433	1 - 10
G. Bader, A. Fauconnier, et al, <i>Cystocele Repair by Vaginal Approach With a Tension-Free Polypropylene Mesh</i> , Gynecologie Obstetrique & Fertilité 32 (2004) 280-284				434	1 - 10
V. Lucente, D. Hale, D. Miller and J. Madigan, <i>A Clinical Assessments of GYNEMESH PS for the Repair of Pelvic Organ Prolapse (POP)</i> , Journal of Pelvic Medicine & Surgery, Vol 10, Supp 1, 2004; 35				435	1 - 10
G. Bader, A. Fauconnier, et al, <i>Cystocele Repair by Vaginal Approach With a Tension-Free Transversal Polypropylene Mesh</i> , Gynecologie Obstetrique & Fertilité 32 (2004) 280-284				436	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
J. Whiteside, A. Weber, L. Meyn and M. Walters, <i>Risk Factors for Prolapse Recurrence after Vaginal Repair</i> , Am J Obstet Gynec (2004) 191, 1533-8				437	1 - 10
Quality of Life and Sexual Function After Hysterectomy in Women with Preoperative Pain and Pressure				438	1 - 10
J.M. Bellon, J. Bujan, L. Contreras and A. Hernando, <i>Intergration of Biomaterials Implanted into Abdominal Wall: Process of Scar Formation and Macrophage Response</i> , Biomaterials 1995, Vol 16 No. 5: 381-387				439	1 - 10
A Prospective Study of 3 Years of Outcomes after Hysterectomy With and Without Oophorectomy				440	1 - 10
V. Sola, J.. Pardo, P. Ricci and E. Guilloff, <i>Tension Free Monofilament Macropore Polypropylene Mesh (Gynemesh PS) in Female Genital Prolapse Repair</i> , International Braz J Urol Vol.32 (4):410-415, July-August, 2006				441	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
K. Amrute, E. Eisenberg, et al, <i>Analysis of Outcomes of Single Polypropylene Mesh in Total Pelvic Floor Reconstruction</i> , Neurourology and Urodynamics 26:53-58 (2007)				442	1 - 10
B. Fatton, J. Amblard, et al, <i>Transvaginal Repair of Genital Prolapse: Preliminary Results of a New Tension-Free Vaginal Mesh (Prolift™ technique) - A Case Series Multicentric Study</i> , Int Urogynecol J (2007) 18:743-752				443	1 - 10
<i>Management of Failed Sling Surgery for Female Stress Urinary Incontinence - Sling-related Complications (on-line Medscape article)</i>				444	1 - 10
Risk Factors for Chronic Pain After Hysterectomy				445	1 - 10
Complications of Grafts Used in Female Pelvic Floor Reconstruction: Mesh Erosion and Excrusion				446	1 - 10
R. Hiltunen, K. Nieminen, et al, <i>Low-Weight Polypropylene Mesh for</i>				447	1 - 10

Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
<i>Anterior Vaginal Wall Prolapse: A Randomized Controlled Trial</i> Obstetrics & Gynecology, Vol. 110, No. 2, Part 2, pp 455-462, August 2007					
<i>H. Jo, J. Kim et al, Efficacy and Outcome of Anterior Vaginal Wall Repair Using Polypropylene Mesh (Gynemesh), J. Obstet. Gynaecol. Res.</i> Vol. 33, No. 5: 700-704, October 2007				448	1 - 10
<i>F. Araco, G. Gravante, et al, Risk Evaluation of Smoking and Age on the Occurrence of Post-Operative Erosions After Transvaginal Mesh Repair for Pelvic Organ Prolapse, Int Urogynecol J</i> (2008) 19:473 479				449	1 - 10
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Evaluation of Force Required to Remove Two Different Trocar-less Pelvic Floor Repair Kit Mesh Legs from the Sacrospinus Ligaments in a Cadaver Model				518	1 - 10
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Title	Author	Date	Bates Range	Def. Ex.	Opinions Supported
and Gynecology (2008); Vol. 112; No. 1; pgs. 49-55					
Urogynecology and Reconstructive Pelvic Surgery			577	577	1 - 10
WHO Systematic Review of Prevalence of Chronic Pelvic Pain: A Neglected Reproductive Health Morbidity			578	578	1 - 10
. Chloe, <i>Advances in Experimental Medicine and Biology</i> , Adv Exp Med Biol 2003; 539(Pt A):481-492			579	579	1 - 10
R. de Tayrac and V. Letouzey, <i>Basic science and clinical aspects of mesh infection in pelvic floor reconstructive surgery</i> , Int Urogynecol J (2011) 22:775-780			580	580	1 - 10
R. Cortes et al, <i>Biomaterials and the Evolution of Hernia Repair I: The History of Biomaterials and the Permanent Meshes</i> , Surgery - Basic Science and Clinical Evidence Second Edition, Chapter 109			581	581	1 - 10
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M. Lomas and H. Cooperman, <i>Correction of Rectal Prolapsedia by use of Polypropylene Mesh (Marlex)</i> , Dis. Col. & Rect. Vol 15 No. 6, Nov.Dec. 1972:416-419			583	583	1 - 10
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F. Billmeyer, <i>Hydrocarbon Plastics and Elastomers</i> , textbook of Polymer Science, Third Edition, 1984, Chapter 13				585	1 - 10

Dated: April 20, 2015

Respectfully submitted,

SHOOK HARDY & BACON L.L.P.

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PROOF OF SERVICE

I am employed in the County of Orange, State of California. I am over the age of 18 and not a party to the within action. My business address is 5 Park Plaza, Suite 1600, Irvine, California 92614.

On April 20, 2015, I served on the interested parties in said action the within:

DEFENDANT'S OFFER OF PROOF FOR EXPERT WITNESS

MATTHEW DAVIES, M.D.

by placing a true copy thereof in a sealed envelope(s) addressed as stated on the attached mailing list.

☒ (MAIL) I am readily familiar with this firm's practice of collection and processing correspondence for mailing. Under that practice it would be deposited with the U.S. postal service on that same day in the ordinary course of business. I am aware that on motion of party served, service is presumed invalid if postal cancellation date or postage meter date is more than 1 day after date of deposit for mailing in affidavit.

☐ (FAX) I caused such document(s) to be served via facsimile on the interested parties at their facsimile numbers listed above. The facsimile numbers used complied with California Rules of Court, Rule 2003, and no error was reported by the machine. Pursuant to California Rules of Court, Rule 2006(d), I caused the machine to print a report of the transmission, a copy of which is attached to the original of this declaration.

☐ (BY FEDERAL EXPRESS, AN OVERNIGHT DELIVERY SERVICE) By placing a true and correct copy of the above document(s) in a sealed envelope addressed as indicated above and causing such envelope(s) to be delivered to the FEDERAL EXPRESS Service Center, on _____, to be delivered by their next business day delivery service on _____, to the addressee designated.

☒ (ELECTRONIC FILING) I provided the document(s) listed above electronically through the CM/ECF system pursuant to the instructions set forth in the Local Rules for the United States District Court for the Central District of California.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 20, 2015, at Irvine, California.

Eva M. Weiler
(Type or print name)

/s/ Eva M. Weiler
(Signature)

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